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belong to the **first group**, those indexed by. $n = n. 0. + 1,... , 2n. 0.$ belong to the **second
group** etc. (see. Fig. 1). Obviously, the number of transmit ...
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to the **first group**: 1.1) integral equations; 1.2) differential equations; 1.3) series.
representations, while in the **second group** the main methods are: 2.1) ...
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For the **first group**, complete. decoder feedback is available while only half of the class 1
bits come. from the decoder for the **second group**. ...
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The **first group** is useful for general system performance analysis. The **second group**, e.g.
ray tracing, has the potential to be extremely accurate, ...
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Preamble code structure and detection method and apparatus - US ...
... **multipath components** arriving from outside the main beam of the antenna. ... and a
second group G2 of subcodes can be chosen to include a number of ...

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where L(t) is the number of **multipath components** and the other variables have already
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APPARATUS AND METHOD OF MULTI-USER DETECTION

Publication number: WO2005069502

Publication date: 2005-07-28

Inventor: PERETS YONA; MOSHAVI SHIMON; TOLPIN ALEXANDER

Applicant: INTEL CORP (US)

Classification:
- **International:** *H04B1/707;* **H04B1/707;** (IPC1-7): H04B1/707
- **European:** H04B1/707

Application number: WO2004US18922 20040706

Priority number(s): US20030748180 20031231

Also published as:

   EP1716644 (A1)

   US2005141653 (A1)

   EP1716644 (A0)
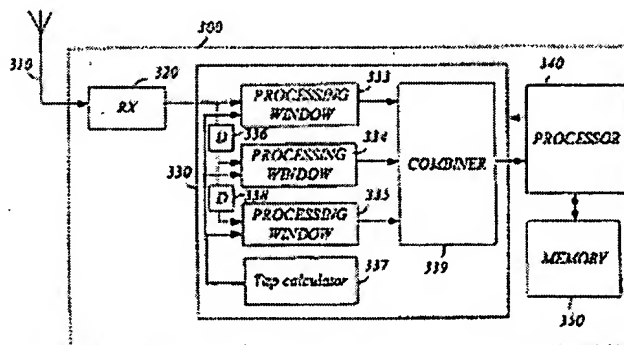
Cited documents:

   US5995538

   WO9808312

   WO0101594

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Abstract of **WO2005069502**

Briefly, a decoder to decode a desired symbol within a plurality of multipath components. The decoder may include processing window that may be positioned around the desired symbol within a group of multipath components. A method for decoding the symbol is also provided.

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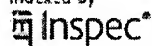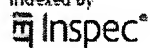| **IEEE JNL** | IEEE Journal or Magazine |
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Last Name = MOSHAVI
First Name = SHIMON

Application#	Patent#	Status	Date Filed	Title	Inventor Name
08279477	5553062	150	07/26/1994	SPREAD SPECTRUM CDMA INTERFERENCE CANCELER SYSTEM AND METHOD	MOSHAVI, SHIMON
08634160	5757791	150	04/18/1996	MULTISTAGE LINEAR RECEIVER FOR DS-CDMA SYSTEMS	MOSHAVI, SHIMON
08654994	5719852	150	05/29/1996	SPREAD SPECTRUM CDMA SUBTRACTIVE INTERFERENCE CANCELER SYSTEM	MOSHAVI, SHIMON
08939146	6014373	150	09/29/1997	SPREAD SPECTRUM CDMA SUBTRACTIVE INTERFERENCE CANCELER SYSTEM	MOSHAVI, SHIMON
09813491	Not Issued	161	03/21/2001	Combined adaptive spatio-temporal processing and multi-user detection for CDMA wireless systems	MOSHAVI, SHIMON
09860032	6996159	150	05/17/2001	REDUCING SPREAD SPECTRUM NOISE	MOSHAVI, SHIMON
09884637	6771934	150	06/19/2001	METHODS AND SYSTEMS FOR REDUCING INTERFERENCE ACROSS COVERAGE CELLS	MOSHAVI, SHIMON
10056983	7058116	150	01/25/2002	NOVEL RECEIVER ARCHITECTURE FOR CDMA RECEIVER DOWNLINK	MOSHAVI, SHIMON
10291189	Not Issued	30	11/08/2002	Reduced complexity MMSE multiuser detection for a multirate CDMA link	MOSHAVI, SHIMON
10748180	Not Issued	30	12/31/2003	Apparatus and method of multi-user detection	MOSHAVI, SHIMON
10971233	Not	25	01/31/2005	Combined adaptive spatio-	MOSHAVI,

	Issued			temporal processing and multi-user detection for CDMA wireless systems	SHIMON
<u>10971237</u>	Not Issued	30	01/27/2005	Parallel interference cancellation and minimum cost channel estimation	MOSHAVI, SHIMON
<u>11056226</u>	Not Issued	25	02/14/2005	Apparatus and method of canceling interference	MOSHAVI, SHIMON
<u>11393435</u>	Not Issued	30	03/30/2006	Equalizer with reduced complexity with application to long delay spread channels	MOSHAVI, SHIMON
<u>11394994</u>	Not Issued	30	03/30/2006	Wireless communications with auxiliary antennas	MOSHAVI, SHIMON
<u>11422550</u>	Not Issued	30	06/06/2006	NOVEL RECEIVER ARCHITECTURE FOR CDMA RECEIVER DOWNLINK	MOSHAVI, SHIMON
<u>60190803</u>	Not Issued	159	03/21/2000	Combined space-time adaptive processing and multi-user detection for cdma wireless systems	MOSHAVI, SHIMON

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Last Name = PERETS
First Name = YONA

Application#	Patent#	Status	Date Filed	Title	Inventor Name
09285274	6381450	150	04/02/1999	METHOD AND DEVICE FOR MANAGING POWER CONSUMPTION OF A RECEIVER IN STAND-BY MODE	PERETS, YONA
09371275	6848069	150	08/10/1999	ITERATIVE DECODING PROCESS	PERETS, YONA
10100190	6751451	150	03/19/2002	METHOD AND DEVICE FOR MANAGING POWER CONSUMPTION OF A RECEIVER IN STAND-BY MODE	PERETS, YONA
10254974	Not Issued	95	09/26/2002	METHOD AND APPARATUS OF CROSS-CORRELATION	PERETS, YONA
10673267	Not Issued	41	09/30/2003	Method and apparatus for multi-algorithm detection	PERETS, YONA
10748180	Not Issued	30	12/31/2003	Apparatus and method of multi-user detection	PERETS, YONA
10986057	Not Issued	41	11/12/2004	Iterative decoding process	PERETS, YONA
11124586	Not Issued	30	05/09/2005	System, apparatus and method of varying channel bandwidth	PERETS, YONA
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11232970	Not Issued	30	09/23/2005	Method and apparatus to correct channel quality indicator estimation	PERETS, YONA
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11529726	Not Issued	25	09/28/2006	Method and apparatus of system scheduler	PERETS, YONA

11624550	Not Issued	25	01/18/2007	METHOD AND APPARATUS OF CROSS-CORRELATION	PERETS, YONA
60871317	Not Issued	20	12/21/2006	Jitter Sampling Correction	PERETS, YONA
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